## WHAT IS CLAIMED IS:

1. In a process for the production of epothilone compounds, the improvement comprising preparing said compounds by cyclization of a compound produced from an intermediate of formula II

wherein PG is a protecting group.

- 2. The process according to claim 1, wherein PG is a TBS or TES group.
- 3. The process according to claim 1, wherein the compound of formula II contains a TBS group as PG, which group is changed to a TES group during the process.
- 4. The process according to claim 1, wherein said cyclization reaction is of a compound of the formula 21

5. The process according to claim 4, wherein the compound of formula 21 is produced by a process comprising reducing a compound of formula 11

to form an aldehyde, coupling the aldehyde with a compound  $\widehat{-N^{\star}}$ 

to produce an enoylsultam of formula 12,

reacting enolysultam 12 with L-selectrides to produce compounds of formulae 13 and 14,

reducing sultam 13 to form aldehyde 15,

reacting 15 with ketone 16

to form compound 17,

protecting the 17-OH group of compound 17 so as to produce alkene 18,

subjecting alkene 18 to dehydroxylation and glycocleavage to produce aldehyde 19,

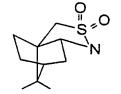
deprotecting the 15-position of aldehyde 19 to produce aldehyde 20,

and subjecting aldehyde 20 to oxidation and macrolactonization to produce compound 21

wherein each PG independently is a protecting group,

and -N\*

is



6. A process according to claim 4, comprising cyclizing a compound of formula 21 to produce a macrolactone of formula 22

deprotecting the oxygen atom at the 3-position to form a compound of formula 23

11

and removing the protecting group at the 7-position to form epothilone B.

## 7. A compound of the formula 5 to 21

wherein PG is a protecting group,

and R is Bn or PMB.